

## HS3 - Global Hawk #871 09/15/13 - 09/16/13 Science Report

**Aircraft:** [Global Hawk - AFRC #871](#) ([See full schedule](#))

**Date:** Sunday, September 15, 2013 - Monday, September 16, 2013

**Mission:** HS3

**Mission Location:** Hurricane Ingrid in the Gulf of Mexico

**Mission Summary:**

This was an AV-1 flight to Hurricane Ingrid in the Gulf of Mexico. The on-station time was cut short due to extremely cold atmospheric temperatures in the region. The instruments were able to get additional data over other precipitation targets on the return to Wallops.

**Submitted by:** Scott Braun on 09/20/13

**File:**

 [HS3\\_Sept15-16\\_flight\\_report.pdf](#)

**Related Flight Report:**

### Global Hawk #871 09/15/13 - 09/16/13

**Flight Number:** 871-0091

**Payload Configuration:** HS3 - TN871 2013 config

**Nav Data Collected:** No

**Total Flight Time:** 22.9 hours

**Submitted by:** Chris Naftel on 09/16/13

**Flight Segments:**

<b>From:</b>	WFF	<b>To:</b>	WFF
<b>Start:</b>	09/15/13 13:38 Z	<b>Finish:</b>	09/16/13 12:30 Z
<b>Flight Time:</b>	22.9 hours		
<b>Log Number:</b>	<a href="#">13H010</a>	<b>PI:</b>	Marilyn Vasques
<b>Funding Source:</b>	Hal Maring - NASA - SMD - ESD Radiation Science Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	The purpose of this mission was to investigate Hurricane Ingrid. Part way into the mission, the aircraft experienced very cold air and the fuel temperature reached the limit that requires a return to base. On the way back to WFF, the aircraft was directed to gather data around a couple of interesting areas of convection.		

**Flight Hour Summary:**

	<b>13H010</b>
<b>Flight Hours Approved in SOFRS</b>	459.1
<b>Total Used</b>	272.4
<b>Total Remaining</b>	186.7

#### 13H010 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">08/01/13</a>	872-0111	Check	5	5	454.1	
<a href="#">08/08/13</a>	871-0087	Check	4.6	9.6	449.5	
<a href="#">08/14/13</a>	871-0088	Ferry	10.8	20.4	438.7	
<a href="#">08/16/13</a>	872-0112	Ferry	10.2	30.6	428.5	
<a href="#">08/20/13 - 08/21/13</a>	872-0113	Science	25.1	55.7	403.4	

<a href="#">08/24/13 - 08/25/13</a>	872-0114	Science	24.6	80.3	378.8
<a href="#">08/29/13 - 08/30/13</a>	872-0115	Science	22.6	102.9	356.2
<a href="#">09/03/13 - 09/04/13</a>	871-0089	Science	23.2	126.1	333
<a href="#">09/04/13 - 09/05/13</a>	872-0116	Science	22.9	149	310.1
<a href="#">09/07/13 - 09/08/13</a>	872-0117	Science	23.2	172.2	286.9
<a href="#">09/10/13</a>	871-0090	Science	4.6	176.8	282.3
<a href="#">09/15/13 - 09/16/13</a>	871-0091	Science	22.9	199.7	259.4
<a href="#">09/16/13 - 09/17/13</a>	872-0118	Science	20.6	220.3	238.8
<a href="#">09/17/13</a>	871-0092	Science	4.5	224.8	234.3
<a href="#">09/19/13 - 09/20/13</a>	872-0119	Science	22.7	247.5	211.6
<a href="#">09/25/13 - 09/26/13</a>	871-0093	Science	15.1	262.6	196.5
<a href="#">09/26/13</a>	872-0120	Ferry	9.8	272.4	186.7

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

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NASA Official: Bruce A. Tagg

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